

Title (en)
Mobile object identification device

Title (de)
Vorrichtung zum Identifizieren beweglicher Objekte

Title (fr)
Dispositif d'identification d'objets mobiles

Publication
EP 0693741 A2 19960124 (EN)

Application
EP 95111327 A 19950719

Priority
JP 16825794 A 19940720

Abstract (en)
A communication area for an antenna (30) disposed on a toll collection gate (24) and a communication area for a responder unit (23a through 23e, hereinafter, IU) mounted on an automobile are arranged to coincide with each other, and communication failure in intervening areas when a plurality of communication areas are formed in a toll collection area. When an IU (23a through 23e) mounted on an automobile (22) receives a pilot signal-wave, it modulates a carrier-radio-wave-signal which is subsequently transmitted thereto with a responding data-signal and transmits the modulated-carrier-radio-wave as a responding signal-wave. In this system, the output power of the responding signal-wave is attenuated during the round trip of the carrier-radio-wave. Therefore, the output power thereof is decreased from an original level when the pilot signal-wave is transmitted. On the other hand, when other signal waves are transmitted, their output power are restored to the original level, thereby equalizing the power of the responding signal of the IU (23a through 23e) and that of the communication signals from the antenna (30) thereby ensuring steady communication. <MATH>

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IPC 8 full level
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CPC (source: EP US)
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